

# Vinny (Vinicius) Lima

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## EDUCATION

**Purdue University, Polytechnic Institute**

- **Ph.D. in Technology - Data Visualization**

*West Lafayette, IN  
May 2021 - Dec 2024 (expected)*

**University of Brasilia, Engineering Department**

- **Master in Electrical Engineering - Computer Forensics**
- **Bachelor in Network Engineering**

*Brasilia, Brazil  
Aug 2014 - Dec 2016  
Jan 2007 - Jun 2011*

## MAIN SKILLS

- Machine Learning, Deep Learning, NLP, Applied Statistics, Data Analysis, Data Visualization.
- Python, PHP, SQL, CSS, HTML, Javascript, C#.
- Tableau, Microsoft Power BI, Matlab, Photoshop, Processing, Elasticsearch, Unity.
- **Languages:** Portuguese (fluent), Spanish (intermediate), German (basic).

## PROFESSIONAL EXPERIENCE

### Research Assistant

**Purdue University, Computer Graphics Dept.**

*Aug 2021 - present  
West Lafayette, IN, USA*

- Research on "LSTM for risk assessment in crime against women": NLP analysis of crime reports for sentiment analysis and sequence of patterns identification. Gathered experience in NLTK, spaCy, and Keras.
- Filetsar+ project: support the team of faculties and students in the development of a tool to help digital forensics to analyze network files. Gathered experience in Linux, Docker, Elasticsearch, and Kibana.
- Research on "Hotspot Prediction of Severe Traffic Accidents in the Federal District of Brazil": Application of ML techniques, such as Linear Regression, Random Forest, SVC, KNN, and MLP to identify accident hotspots. Gathered experience in Scikit Learn and Tensorflow.

### Data Analyst

**BRASA - Brazilian Student Association**

*Jan 2022 - June 2022  
(Remote)*

- Process and analysis of data to support board decision-making. Experience in cleaning and preprocessing data for visualization using Python. Basic experience in AWS to store and extract content.

### Forensic Engineer

**Criminalistics Institute, Federal District Civil Police**

*Jan 2013 - Aug 2021  
Brasilia, Brazil*

- Responsible for collecting and examining criminal evidence, analyzing the overall crime scene, and producing a final report to police investigators and authorities.
- Led the Traffic Reconstruction Sector in a team of 25 employees for 2 years.
- Development of a web visualization application with MS Power BI to support decision-making strategies for accident prevention. Tutored two undergraduate students in the project.
- Developed a social project to lecture public high school students on the importance of safe driving.

### Instructor

**Estrategia Concursos**

*Oct 2018 - Aug 2021  
Sao Paulo, SP, Brazil (Remote)*

- Taught 4 online courses in Telecommunications, Communication Networks, Operational Systems, and Databases.

### Research Assistant

**University of Brasilia**

*Nov 2012 - Jan 2013  
Brasilia, DF, Brazil*

- Collaborated with a team of researchers, developing a Web-based system for the Government's Human Resources. Gathered experience in PHP, MySQL.

### Web Design Intern

**EngNet**

*Aug 2008 - Dec 2009  
Brasilia, DF, Brazil*

- Developed front-end and layout of client's websites. Worked on a total of 12 projects. Gathered experience in CSS, and HTML.